



(12) **United States Patent**
Shadduck

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(54) **INTRAOCULAR LENS SYSTEM AND METHOD FOR POWER ADJUSTMENT**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(Continued)

This patent is subject to a terminal disclaimer.

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Related U.S. Application Data

(63) Continuation of application No. 11/069,136, filed on Feb. 28, 2005, now Pat. No. 7,776,088, which is a continuation of application No. 10/231,433, filed on Aug. 29, 2002, now abandoned.

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(57) **ABSTRACT**

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A61F 2/16 (2006.01)

(52) **U.S. Cl.**
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USPC **623/6.13**; 623/6.22; 623/6.34

(58) **Field of Classification Search**
CPC A61F 2/1635; A61F 2/1656
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See application file for complete search history.

An intraocular lens (IOL) that provides for optical power adjustment following its implantation, for example, for use in treating cataract patients. The lens body has first and second surface portions that bound at least one interior chamber or space that extends from the central optic portion to the lens periphery. The interior chamber or space has a microporous body that is intermediate inner and outer portions of the space. In one embodiment, the microporous body is capable of cooperating with an external Rf or light source to expose a charge to a charge-carrying fluid within the interior chamber. By this system, fluid flows are induced to alter the optical parameters of the lens.

24 Claims, 8 Drawing Sheets

